PCMCIA
Portable HARD DISK PLUS
Installation Manual

HD Traveler

EXP COMPUTER, INC.

EXP MEMORY PRODUCTS.

NON-TRANSFERABLE LIMITED WARRANTY

EXP COMPUTER INC., AND EXP MEMORY PRODUCTS ("EXP") warrants that the HD Traveler Plus (“products”) manufactured or distributed by EXP to be free from failures due to defects in materials or workmanship for a full one year from the date of purchase of the products.

This warranty is void if the product is damaged by abnormal or improper use or by accident, abuse or if any attempt to repair or modify the product without authorization from EXP. Your sales receipt or invoice, showing the date of purchase and the name of the authorized reseller, is your proof of the date of purchase. During the warranty period, EXP will at its option, replace or repair, at no charge, the product that in its opinion is defective.

Before you return the failed products, contact EXP. You will need to obtain a Return Merchandise Authorization (RMA) number by calling EXP’s Technical Support Department at (516) 496-7629. The RMA number should be displayed on the **outside** of the returning package and on the accompanying packing list. EXP cannot be held responsible for any package returned without the RMA number. You are responsible for packaging, providing **proof of the date of purchase** and the shipping cost of the failed product to EXP Computer, Inc. You are responsible for mailing the warranty registration card. The warranty claims may not be honored if there is no corresponding registration card on file at EXP.

IN NO EVENT WILL EXP BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGE, INCLUDING LOSS OF PROFIT, LOSS OF SAVINGS; OR ANY OTHER DAMAGES CAUSED BY PRODUCT OR FAILURE OF THE PRODUCT TO PERFORM.

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INTRODUCTION

The HD Traveler PLUS is a portable compact hard disk drive, which consists of a low-power hard disk drive, a Parallel port (printer port) connector, and a PCMCIA interface card. It is compatible with *both* computer's **Parallel Port** and **PC CARD** (PCMCIA) 2.1 Type II or I slot. The HD Traveler PLUS has an external power jack in case your notebook's PCMCIA slot cannot supply enough power needed by the unit. The external power is required for a parallel port connection. The HD Traveler PLUS dual connection gives user flexibility to add more storage space or transfer data between your notebook and/or your desktop computer.

SYSTEM REQUIREMENTS

1. Notebook or desktop computer with a PC Card (PCMCIA) 2.1 Type I or II slot or a Parallel port (Printer port)
2. Windows 95/98, Windows NT 3.51/4.0

FEATURES

- Complies with PC Card (PCMCIA) 2.1 specification
- Windows 95/98, Windows NT Ready
- Hard disk size - 2.1 GB, 3.2 GB or 5 GB
- Power sources requirement

  PC Card interface: PC slot or AC adapter
  Parallel port interface: AC Adapter required

- Low power consumption; 250 mA (Standby), 800 mA (Peak value accessing)
- Ultra slim PCMCIA Card
  85.6 x 54.0 x 3.3 mm (Type I)

PART NAMES AND FUNCTIONS

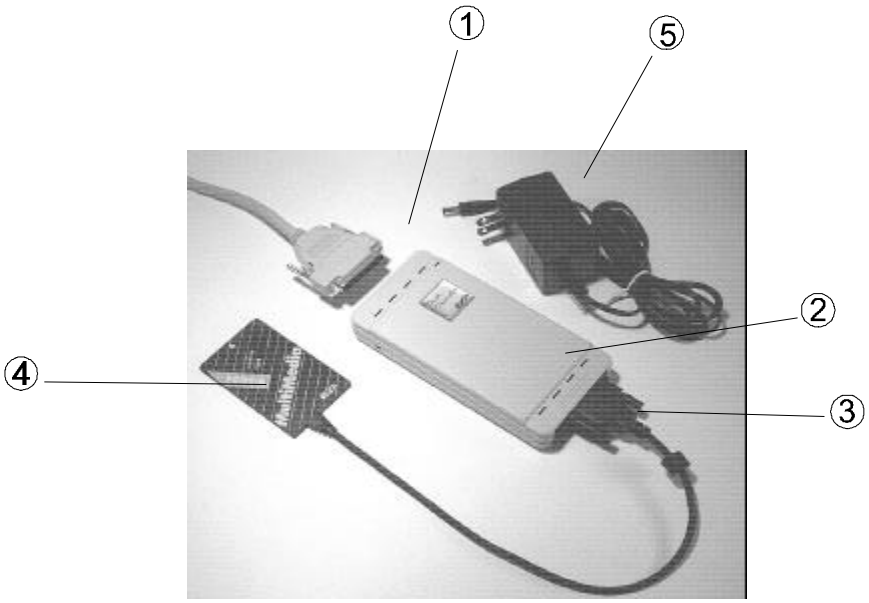
1. **Parallel Port**
   Standard 25 pin Parallel port connector.

2. **Hard Disk**
   Hard disk with the power indicator, a DC input jack

3. **Interface Connector**
   26-pin male connector connects to PCMCIA card's female adapter

4. **PCMCIA Card**
   Type 1 PCMCIA card connects to notebook's PCMCIA slot

5. **AC Adapter**
   Input: 100-240 VAC, 50-60 Mhz. 0.4A.
   Output: +12 VDC/1000mA.



INSTALLATION

The installation procedures have two sections for each type of interface.

1. PCMCIA interface
2. Parallel Port interface

The procedure includes hardware and software installation. Just follow along the interface of your choice.

INSTALLATION FOR PC CARD INTERFACE

HARDWARE INSTALLATION

If install on a NT station, make sure you turn OFF all power to your system before connecting the HD Traveler Plus to your computer. However, you are allowed to install the HD with power while using Windows 95/98, because the OS supports plug-and-play.

1. Connect the PCMCIA interface card to the HD drive. Push firmly until the HARD DISK connector is seated, and then tighten the two screws on the cable connector.

2. Place the HD drive in the horizontal position.

3. Consult your computer's documentation to locate the PCMCIA slot.

4. Align the PCMCIA interface card with the arrow sign pointing to the computer's slot. (Please note that the card is keyed to guide for proper orientation.)

5. Slowly insert the PCMCIA interface card into the slot and press firmly until the card is seated.

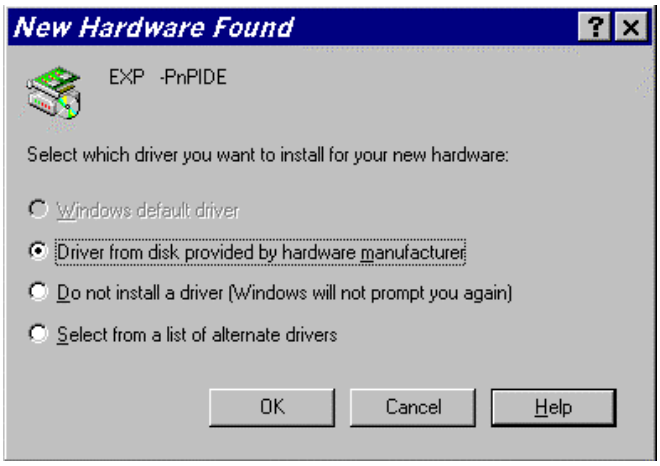
6. You are now ready to install the HD Ttaveler Plus device driver.

CAUTION

The hard disk and electronic components installed on the Hard disk Traveler Plus are very sensitive to damage from static electricity. Before handling the unit, touch a grounded metal surface. DO NOT connect/disconnect the HARD DISK PCMCIA interface connector to/from the PCMCIA interface card when the system is in power-on state.

SOFTWARE INSTALLATION FOR WINDOWS 95 AND 98

The “New Hardware Found” dialog box* will appear when you insert the HD Traveler Plus under Windows 95 for the **very first time.**


New Hardware Found
EXP -PnPIDE
Select which driver you want to install for your new hardware:
Windows default driver
Driver from disk provided by hardware manufacturer
Do not install a driver (Windows will not prompt you again)
Select from a list of alternate drivers
OK
Cancel
Help

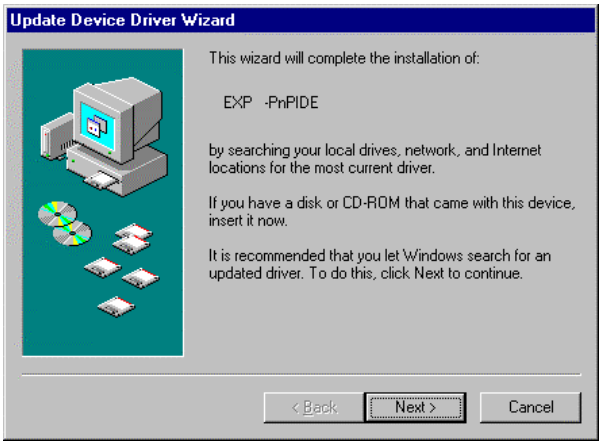
Select “Driver from disk provided by hardware manufacturer” and click on the OK button. Insert the HD TRAVELER device driver disk into your floppy drive.

(If the dialog box does not appear, please refer to the “Trouble Shooting section.)

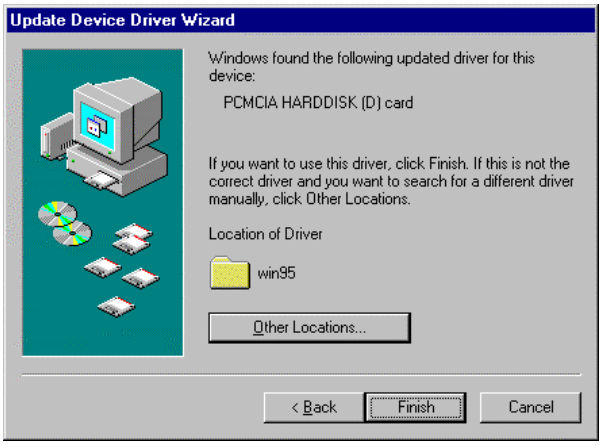
If a dialog box come up select the EXP HD Traveler Plus, then click OK.

* Your dialog box may be different from the one shown depending on your Windows 95 version

For user with a newer revision, “Update Device Driver Wizard” box * will appear. Click on “Next” button, let Windows 95 search for driver. Make sure to insert the HD Traveler device driver diskette into your floppy drive.


Update Device Driver Wizard
This wizard will complete the installation of:
EXP -PnPIDE
by searching your local drives, network, and Internet locations for the most current driver.
If you have a disk or CD-ROM that came with this device, insert it now.
It is recommended that you let Windows search for an updated driver. To do this, click Next to continue.
< Back
Next >
Cancel

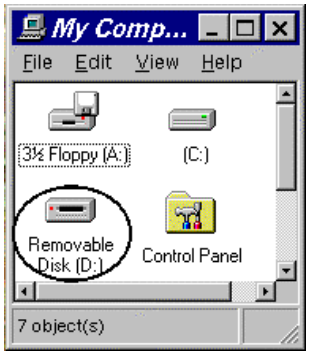
(If the dialog box does not appear, please refer to the “Trouble Shooting section.)


Update Device Driver Wizard
Windows found the following updated driver for this device:
PCMCIA HARDDISK (D) card
If you want to use this driver, click Finish. If this is not the correct driver and you want to search for a different driver manually, click Other Locations.
Location of Driver
win95
Other Locations...
< Back
Finish
Cancel

Click on the “Finish” button.

VERIFY YOUR INSTALLATION

From “Desk Top” click on “My Computer” icon. There should be addition drive’s icon displayed. (You may have to manually set Disk Drive setting as a removable icon).



SOFTWARE INSTALLATION FOR WINDOWS NT 4.0

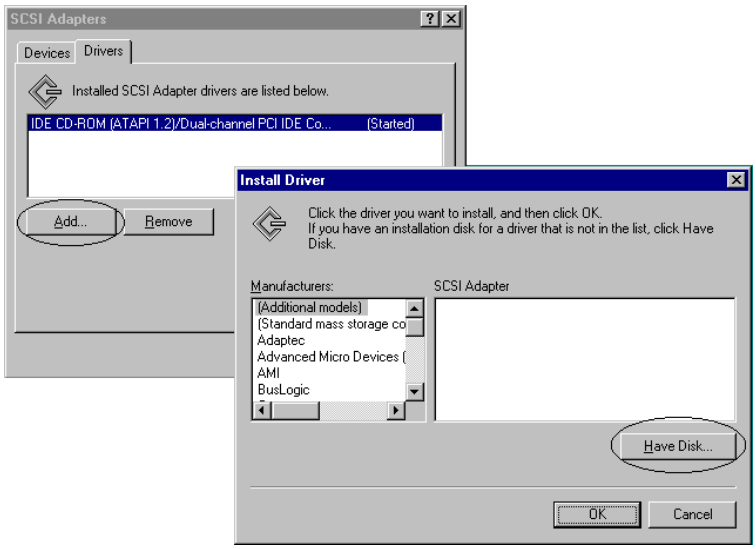
PC Card Interface

Currently there is no Plug and Play support for PC Card (PCMCIA) on the Windows NT 4.0. User can install the device driver without the HD PC Card, however after you finishing the installation you should insert the HD PC Card before restart the computer.

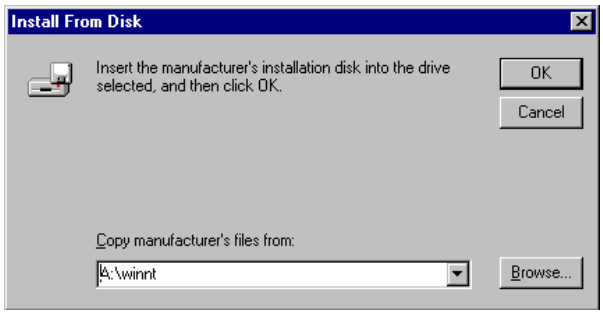
Follow the instructions to install the HD PC device driver:

Click on My Computer > Control Panel > SCSI Adapters.

Choose Drivers tab and the click on “Add”. From the Install Driver click “Have Disk” button.

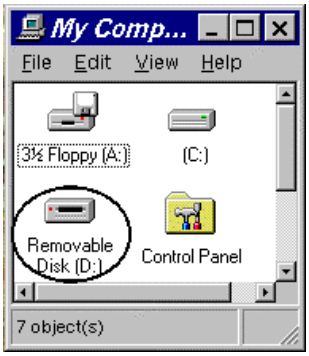


Install from disk dialog box will prompt for device driver diskette.
Either using “Browse” button or type in the path A:\winnt the click OK to finishing the installation.



Make sure to insert the HD PC Card into the PC Card slot before restart the computer.

VERIFY YOUR INSTALLATION



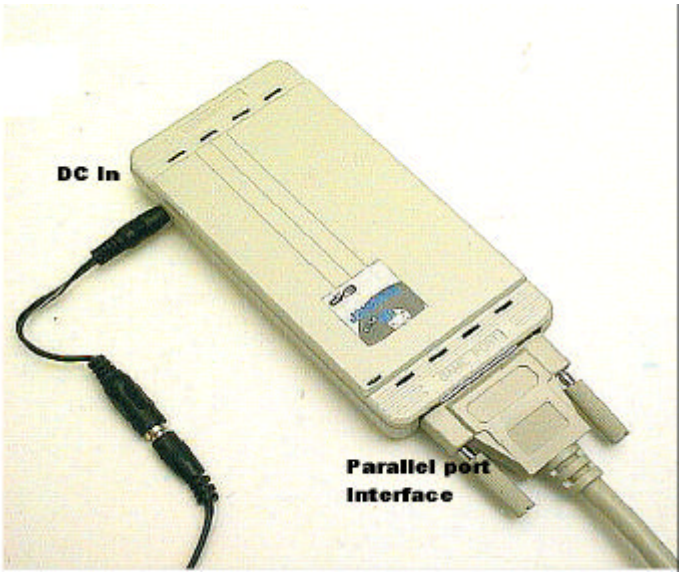
After computer boot up go to My Computer icon, you should have an addition hard disk icon. You may have to manually set Disk Drive setting as a removable icon. (See “Changing drive letter assigned to HD Traveler”)

INSTALLATION FOR PARALLEL PORT INTERFACE

HARDWARE INSTALLATION

Before you begin, make sure you turn OFF all power to your system before connecting the HD TRAVELER to your computer.

1. Connect the DC Input adapter cable to the EXP Hard Disk Traveler drive assembly.



2. Connect one end of the Parallel cable to EXP Hard Disk (25 pin connector), and connect the other end to computer parallel port.
3. Plug-in the AC adapter to a working AC receptacle.
   Note: The EXP hard disk will start to spin up immediately. Be careful, do not move the EXP hard disk while it is spinning.

CAUTION

The hard disk and electronic components installed on the Hard disk Traveler Plus are very sensitive to damage from static electricity. Before handling the unit, touch a grounded metal surface. DO NOT connect/disconnect the HARD DISK PCMCIA interface connector to/from the PCMCIA interface card when the system is in power-on state.

SOFTWARE INSTALLATION FOR WINDOWS 95/98

Check all the connection as states in the “Hardware Installation” section.

From the Desktop Click ‘My Computer’ icon, ‘Control Panel’ and then ‘Add New Hardware’

1. Click "Next>" to begin.
2. When prompted whether to search for your new hardware,

Add New Hardware Wizard
If your hardware is already installed, you should have Windows detect it.
When Windows detects new hardware, it automatically determines the current settings for the device and installs the correct driver.
Do you want Windows to search for your new hardware?
Yes (Recommended)
No
< Back
Next >
Cancel

Select "No" and click "Next>".

3. Open "Other devices" or "SCSI controllers". Click "Have Disk...".

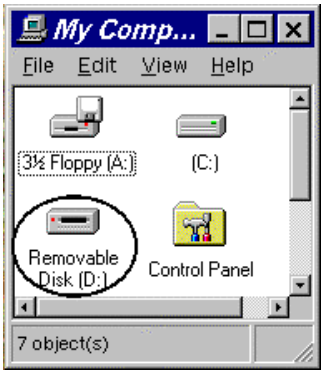
4. Insert Installation Diskette into the drive selected, then click "OK". If you're installing from a directory containing downloaded installation files, specify the full path of the directory and click "OK".
5. Select "F.I.T. Parallel-Port Trans-Series Win95 Driver", and click "Next>".

Add New Hardware Wizard
Click the manufacturer and model of your hardware. If your hardware is not listed, or if you have an installation disk, click Have Disk.
If your hardware is still not listed, click Back, and then select a different hardware type. To see all hardware choices, click Unknown Hardware.
Models:
F.I.T. Parallel-Port Trans-Series Win95 Driver
Have Disk...
< Back
Next >
Cancel

6. Click "Finish" to complete installation.
7. Remove Installation Diskette, if there is one.
8. Restart system, when prompted.

VERIFY YOUR INSTALLATION

From “desk top” click on “my computer” icon. There should be addition drive’s icon displayed. You may have to manually set Disk Drive setting as a removable icon. (See “Changing drive letter assigned to HD Traveler”)



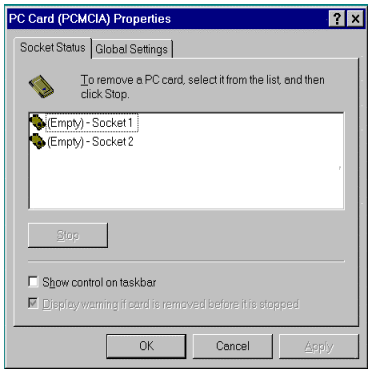
SOFTWARE INSTALLATION FOR WINDOWS NT 4.0

Due to user interface similarity of the Windows 95 and the Windows NT 4.0. The installation procedure is identical to the one for Windows 95.

TROUBLE SHOOTING
PCMCIA INTERFACE

Symptom: No “New Hardware Found” dialog box display.

Solution: 1. The EXP card is NOT fully inserted.

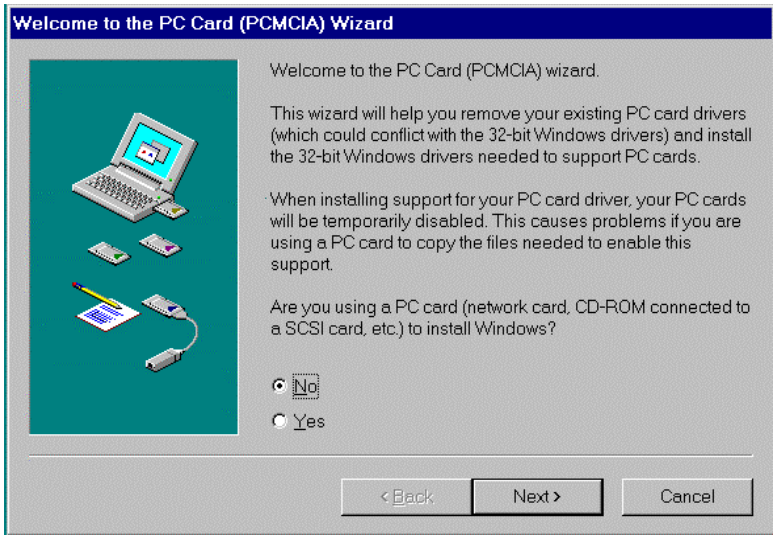

PC Card (PCMCIA) Properties
Socket Status
Global Settings
To remove a PC card, select it from the list, and then click Stop.
(Empty) - Socket 1
(Empty) - Socket 2
Stop
Show control on taskbar
Display warning if card is removed before it is stopped
OK
Cancel
Apply

The card status will show empty if Windows PCPCIA driver did not detect any card. Some time, there is other dialog box displayed, and the PC Card Properties still show empty. You may need to disable such a program (i.e. CardWork, CardWiz) consult your notebook User Manual.

2. The 32-bit card support is NOT enabled.

To enable the 32-bit support, click on “Start”, “Settings”, “Control Panel” from the “Control Panel” folder Click on PC Card (PCMCIA)

If you see the screen below, it means the PCMCIA device driver is not using 32-Bit Card Support. Follow on screen instructions by except all the default setting. At the end of the installation, you will be asked to restart the computer.


Welcome to the PC Card (PCMCIA) Wizard
Welcome to the PC Card (PCMCIA) wizard.
This wizard will help you remove your existing PC card drivers (which could conflict with the 32-bit Windows drivers) and install the 32-bit Windows drivers needed to support PC cards.
When installing support for your PC card driver, your PC cards will be temporarily disabled. This causes problems if you are using a PC card to copy the files needed to enable this support.
Are you using a PC card (network card, CD-ROM connected to a SCSI card, etc.) to install Windows?
No
Yes
< Back
Next >
Cancel

After the computer restart, you can insert the EXP HD card, at this time the “New Hardware Found” or “Update Device Driver Wizard” dialog box will be displayed.

3. No PC Card (PCMCIA) icon in Control Panel

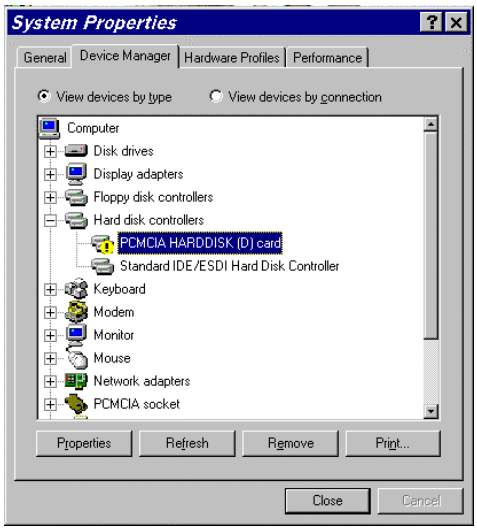
If the PCMCIA Socket is not found, then you must add a PCMCIA socket to your system. Please click on the “Add New Hardware” icon in the Control Panel folder and select “PCMCIA socket”. Select the appropriate type of PCMCIA Controller that matches yours (call your notebook manufacturer for detail) and follow the on-screen instruction.

Symptom: No additional drive icon in “My Computer”. The EXP HD driver installed without any incident.

Solution: 1. System resources for the EXP HD are not available.
Click on “Start”, “Settings”, “Control Panel” from the “Control Panel” folder Click on “System” then “Device Manager”

The EXP entry may have a yellow circle with an exclamation point.

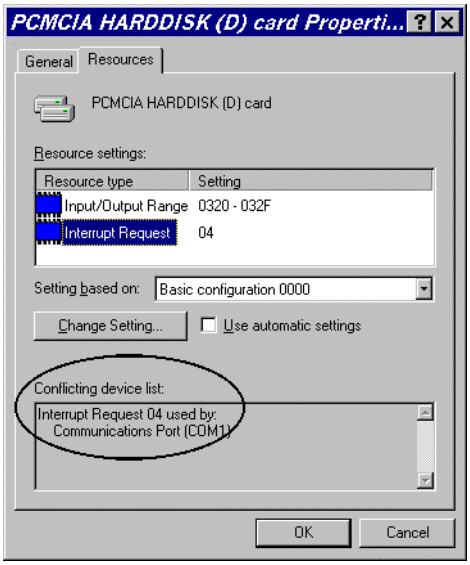
This is an indication that the EXP HD Traveler did not working properly.



Double click on EXP entry line and then select “Resources” You can make some change to the following entry:

‘Basic Configuration xxxx’, I/O Range, and Interrupt request.

During resources changing, observe the “Conflicting Device List”. You should select the resource(s), which the “Conflicting device list” shows **“No Conflict ”**



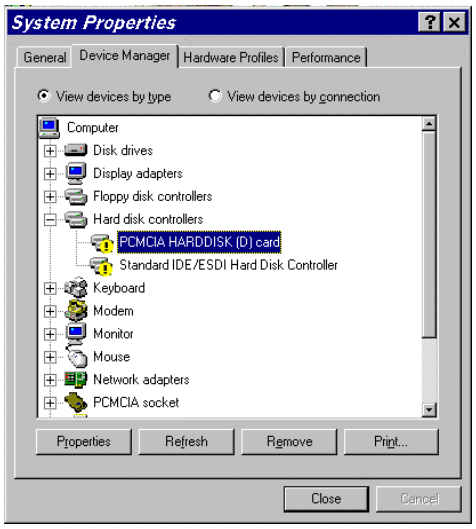
2. Device Manager shows resource for the EXP HD is available and there is no conflicting device.

In some computer, the I/O Range XXX, Interrupt Request 15 may be use by a built-in secondary IDE controller. Try changing the interrupt to 9,10 or 11. You can also try different I/O addresses.

3. The EXP entry may have a yellow circle with an exclamation point. Device Manager shows resource for the EXP HD is available and there is no conflicting device.

   Check all connection to the EXP HD drive assembly, such as AC Adapter. Your notebook PC Card sockets may not have enough power for the EXP HD. If you already connect the AC adapter, make sure to secure all connectors and the adapter plug into a good AC out let.

4. The EXP HD and the 'Standard IDE/ESDI Hard Disk Controller' entry have a yellow circle with an exclamation point.



   Your notebook may have been infected with some kind of computer virus. The virus disabled Windows 95 32-bit device driver for the hard disk. The EXP HD requires the driver for its operation. Check the "Performance" tab to confirm the symptom.

   You need to run an anti-virus program first, once the 32-bit driver is running the EXP HD will be installed.

TROUBLE SHOOTING
PARALLEL PORT INTERFACE

Symptom: No additional drive icon in “My Computer”. The EXP HD driver installed without any incident.

Solution: 1. Check your cable connection, along with the AC adapter at the wall receptacle make sure there is no lose connection. The green LED on the top of EXP HD assembly should lit up.

2. Check your computer CMOS or BIOS setup. Some computer allows user to set printer type to be: Standard, EPP Only or Bi-directional. A setting to “EPP Only” is preferred for a better performance.

3. Check if other hardware devices are connected to the same parallel port. Daisy-chaining with other hardware devices is NOT recommended. Other devices include but not limited to the following: security device (key, lock), audio port, parallel-to SCSI device, tape backup device, network device, A/B switch, printer-sharing device.
4. If you connect the equipment in daisy-chain fashion, always turn on the device farthest away from the computer first (in this case the EXP HD), then turn on the device next on the chain. Turn the computer last.

Symptom: The EXP HD starts to become excessively slow or behave differently on a battery-powered notebook computer.

Solution: If you are using a notebook or laptop computer, without the AC adapter. The performance of the parallel port may become sluggish and unreliable if the battery runs low. Try reconnecting the AC adapter to your computer or recharging the battery.

Symptom: The EXP HD starts to become excessively slow or does not work at all.

Solution: The parallel port on your machine may be able to a number of different modes, standard, Bi-directional, EPP or ECP. These different setting can effect performance of the EXP HD. In some cases, the standard setting will even shut off signals the EXP HD needs, while if the same port is set to Bi-directional or EPP produce an excellent performance.

REMOVING OR RE-INSTALLING THE DRIVER

PCMCIA Interface

If you need to remove or reinstalling the driver, make sure the EXP hard disk card is inserted.

- Go to “My Computer” icon, “Control Panel”, “System”,“ Device Manager” Click on “Hard Disk Controller”. The EXP Hard disk should be listed

To remove EXP Hard disk.

- Click on the EXP entry line then click “Remove” button. You may need to restart the computer to complete the task.

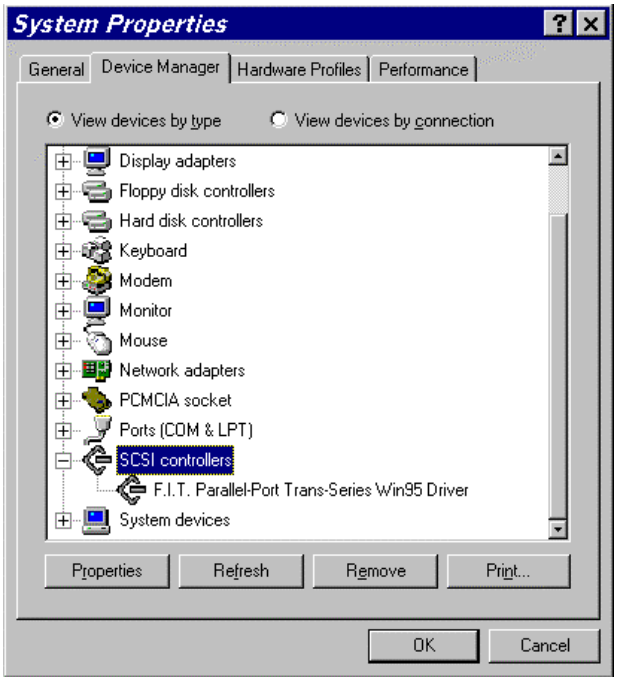
To reinstall EXP Hard disk.

- Click on “Refresh” button, either the “New Hardware Found” or “Update Device Driver Wizard” will be displayed.

Follow the instruction on “Installation for PCMCIA Interface” section.

PARALLEL PORT INTERFACE

Go to “My Computer” icon, “Control Panel”, “System”,“ Device Manager” Click on “SCSI Controller ”. The EXP Hard disk should be listed



To remove EXP Hard disk.

- Click on the EXP entry line then click “Remove” button. You may need to restart the computer to complete the task.

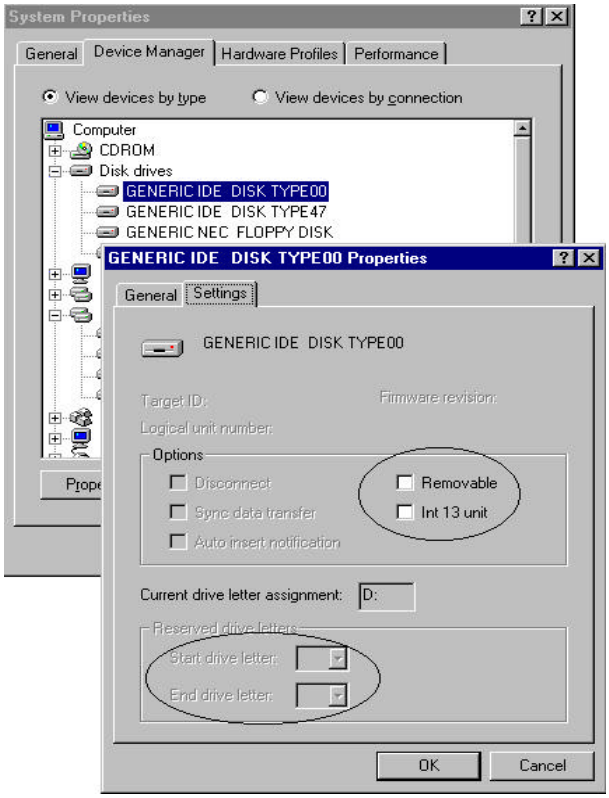
To reinstall EXP Hard disk.

- Either click on “Refresh” button, the “New Hardware Found” or “Update Device Driver Wizard” will be displayed.

Follow the instruction on Installation for “Parallel Port Interface” section.

CHANGING A DRIVE LETTER ASSIGNED TO HD TRAVELER

In some case user need to change a drive letter for the HD Traveler please follow the instruction below.



- Open "Control Panel" -> "System", select "Device Manager" tab, double click "Disk Drives".
- Select "Generic IDE Disk Type 80" (or "Generic IDE Disk Type 00") then click "Properties" button.
- Select "Settings" tab, check the "Removable" under options.
- Change the "Start drive letter" and the "End drive letter" to the letter you wish to choose.

APPENDIX A

Hard Disk partitioning consideration

Partition size
The HD Traveler PLUS has been preformatted and partitioned from the factory. The table shows partition size for the current shipping HD Traveler.

HD Capacity	Partition size		
2 GB	2 GB		
3.2 GB	2.0 GB	1.2 GB	
5.0 GB	2.0 GB	2.0 GB	1.0 GB

FDISK or similar program
Currently the FDISK program will not recognize the HD Traveler. If you need to repartition the HD traveler, we recommend sending the HD back to EXP. Another solution is install the HD Traveler in a notebook with Windows NT 4.0 and use Disk Administrator utility to repartition the HD Traveler.

APPENDIX B

FCC COMPLIANCE STATEMENTS

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the Distance between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

CAUTION

CHANGE OR MODIFICATIONS NOT EXPRESSLY APPROVED BY PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.